CLAIMS

1. A method of improving the security of computer communications over a connecting network comprising the steps carried out before a data packet enters the connecting network from a user domain of:

   a) tagging the data packet from a user domain with a security level marking, and

   b) appending the tagged data packet with a string formed from a check-sum made over the data packet and security level marking tag to form a datagram.

2. A method as claimed in Claim 1, comprising the further steps, carried out as the datagram attempts to enter a second user domain, of:

   c) verifying the string in the received datagram matches a string calculated over the received data packet and security level marking tag, and

   d) verifying the received security level marking tag matches the security level of the second user domain.

3. A method as claimed in Claim 1 or Claim 2, comprising the further step of encrypting each datagram before entry into the wide area network.

4. A method as claimed in Claim 3, wherein datagrams from more than one user domain are encrypted by the same cryptograph.

5. A method as claimed in any preceding claim, wherein the check-sum is a one-way hash function.

6. A method as claimed in Claim 5, wherein the one-way hash function is SHA-1.

7. A method as claimed in any preceding claim, further comprising the step of recording any mismatch of check-sum or security level marking tag.

8. A domain separator for improving the security of computer communications over a connecting network arranged to carry out the method according to any preceding claim.

9. A domain separator as claimed in Claim 8, wherein the user domain security level marking is set by a physical switch on the device.